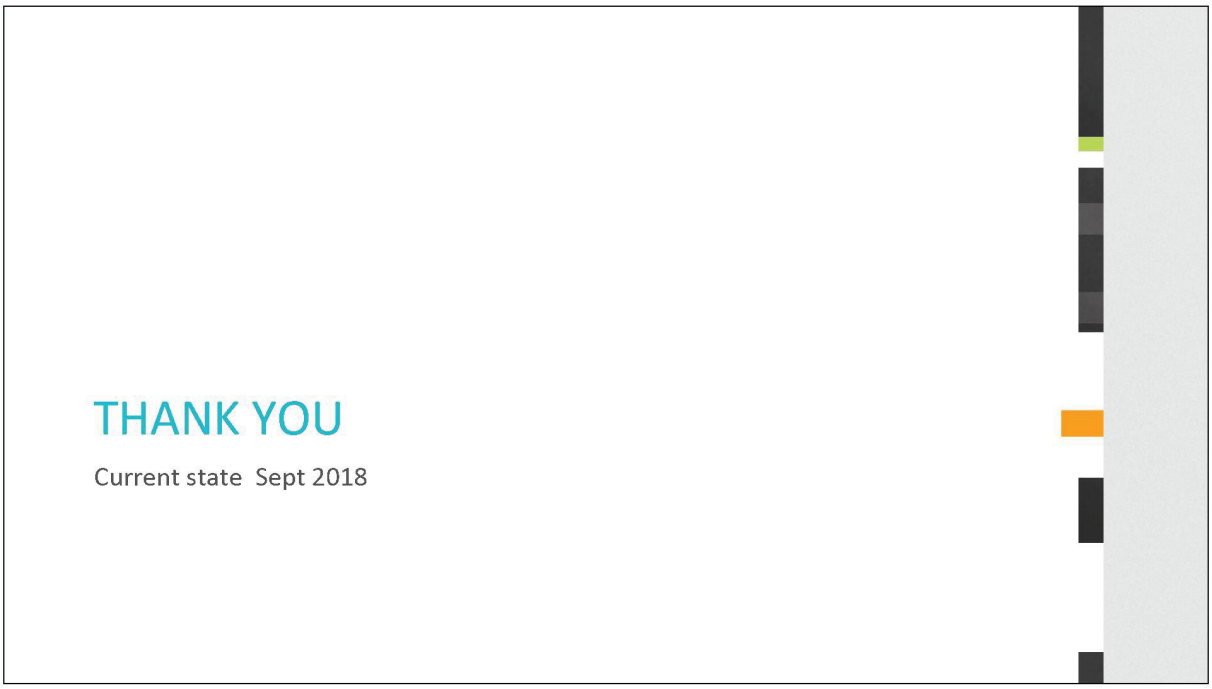
EXHIBIT 19

From: Brown, Timothy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A1BCD95116E84D6692DD89F9D55C5B7A-BROWN, TIMO]
Sent: 10/29/2018 9:14:30 PM
To: Johnson, Rani [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0ee57945f15e47b3abaa99a59170ad3f-Johnson, Ra]
Subject: Solarwinds state of security operations [Autosaved].pptx
Attachments: Solarwinds state of security operations [Autosaved].pptx

This powerpoint contains the current state of security slides updated for October. A review of what we asked for last August and a red yellow green status showing how we have done on our initiatives. A 2019 plan and ask for security. We can review in tomorrow but it's a reasonable place to start.

Tim


INFORMATION SECURITY -
Risk review October 2018


THANK YOU
Current state Sept 2018

A Proactive Security Model – Original plan and request from August 2017

solarwinds

Risk Mitigation Plan for IT Security Operations

Lock down our critical assets that could cause a major event
- External PEN test of our environment – Provide a baseline
- Lock down administrative access and improve identity management process and procedures
- Implement Web Application FW to protect our critical web properties

Improve Cyber Hygiene so we are not a target of opportunity
- Improve coverage for endpoint security, encryption, event management
- Improve system scanning coverage, monitoring and patching
- Implement DLP on the endpoints
- Implement security training for all employee's

Focus on security areas that provide the biggest impact
- Coordinate IT Security Ops activities across all organizations. Standardize policies, share best practices and coordinate the measurement of risk for the organization.

Redacted

- Reduce the number of security incidents by implementing industry standard best practices.
- Accelerate cross company adoption of all security controls

Risk Mitigation Plan for Product Security/Dev Ops

Establish a global, cross-pillar Security Champions – Product team members with 30% of their time dedicated to security. Dotted line report to VP Security Architecture

- Internal Training and Outreach
- Coordinate internal product security testing and application vulnerability scanning
- Internal bug bounty program
- Product Management and Engineering management coordination
- Measurement of risk and effectiveness of program per product line

Invest in Commercial code scanning tool

Invest in developer security training

Overall Budget Request:

Security Program Manager	$180 IT/Dev Ops
Security Architect	$180 IT/Dev Ops
Application Firewall	$40K per year
Internal/External PEN test	$50K
Company wide Security Training	$30K
Secure development training	$30K
Commercial application code scanner	$70K
Total	**$580K +** 30%

time of 4 Security Champions

Risk of Non-Investment

- Current state of security leaves us in a very vulnerable state for our critical assets. A compromise of these assets would damage our reputation and financially.
- Lack of cyber hygiene leaves us open to being a target of opportunity and a compromise will create downtime and lost revenue
- We have had 22 reported security incidents this year. Reactive responses costs significantly more than being proactive.
- We have lost a renewal of DPA for Accenture (192K) due to utilizing free code scanning tools that did not find all vulnerabilities.
- Without training our employees will continue to be one of our biggest risks
- Appropriate security policies, procedures, training, PEN testing are required by our commercial customers and asked for in qualifying questionnaires. Without appropriate answers we will lose business

9

A Proactive Security Model – Updated October 2018 with status

solarwinds

Risk Mitigation Plan for IT Security Operations – Aug 2017 – Updates from Oct 2018

Lock down our critical assets that could cause a major event

- **External PEN test of our environment**
  - PEN tests complete for MSP products, Cloud products, not Orion products (But internal team staffed)
- **Lock down administrative access and improve identity management process and procedures**
  - **Evaluation of access control complete. Increased use in Secret server. Move to O365 provides additional capabilities. Many independent user stores still in use and not well controlled**
- Implement Web Application FW to protect our critical web properties
  - WAF implemented for all Marketing properties but not our applications. Investigating use of AWS WAF for SaaS products

Improve Cyber Hygiene so we are not a target of opportunity

- Improve coverage for endpoint security, encryption, event management
  - Endpoint security at 90+%, Encryption growing, Event management will improve with move to Threat Monitor
- Improve system scanning coverage, monitoring and patching
  - Scanning and patching of core IT servers in place. MSP is now scanning with Rapid 7. Still lack visibility and reporting
- Implement DLP on the endpoints
  - Complete 90+% deployed
- Implement security training for all employee's
  - Basic security training included in on-boarding. Need to improve overall training including developer training

Risk Mitigation Plan for IT Security Operations – Aug 2017 – Updates from Oct 2018

Focus on security areas that provide the biggest impact

- Coordinate IT Security Ops activities across all organizations. Standardize policies, share best practices and coordinate the measurement of risk for the organization
  - Establishment of Security focused team in Dev Ops for MSP will extend to Core Dev Ops. Still working towards standardization of NIST measurement, Best practices being shared
- **Redacted**
- Reduce the number of security incidents by implementing industry standard best practices.
  - Incidents have been on the rise and not being reduced. The teams are getting practice and have streamlined the process
- Accelerate cross company adoption of all security controls

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10

A Proactive Security Model – Updated October 2018 with status

solarwinds

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Overall Budget Request:

Security Program Manager	$180 IT/Dev Ops
Security Architect	$180 IT/Dev Ops
Application Firewall	$40K per year (Webdev team)
Internal/External PEN test	$50K = $25K Spent (25K Cloud PEN test, MSP Security team (2) established, Core Security team established)
Company wide Security Training	$30K
Secure development training	$30K
Commercial application code scanner	$70K (Checkmarx acquired)
Total	**$580K +** 30%

time of 4 Security Champions

11